

Sustainable solutions that addressed erosion, stabilised trail edges, and enhanced the Bald Head Walk Trail's environmental and recreational value.

### THE PROJECT

**Project Category:** FRP Infrastructure

**Scope of Work:** Implement erosion control measures, stabilising trail edges, promoting vegetation regeneration, and installing sustainable, low-maintenance materials to enhance durability, safety, and accessibility.

**Solution:** FRP product to be designed to all Australian standards.

**Project Challenges:** The ongoing challenges of unstable trail edges, erosion, widening trail surfaces, and vegetation loss, the goal was to protect this iconic landmark from further environmental damage.

### THE SOLUTION:

FRP Engineering worked with the Parks and Wildlife Service to address erosion, stabilise trail edges, and promote vegetation regeneration. The upgrade utilised sustainable infrastructure and durable materials, ensuring minimal environmental impact while maintaining the trail's integrity and usability. Key materials included 152mm FRP Channel, 50mm FRP Equal Angle, and 38mm 40/20 Dark Grey Minimesh.

#### BEFORE FRP:

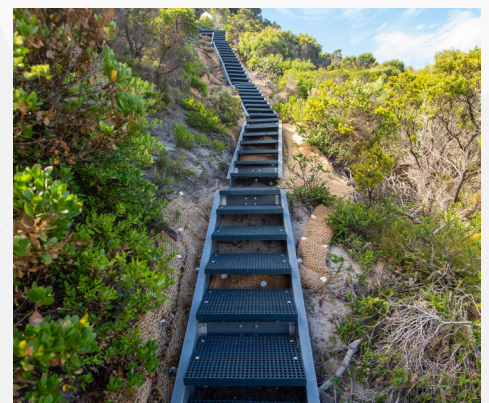


Safety Concerns | Limited Access

#### AFTER FRP:



Improved Access and Safety



Easy Installation and Cleanability



## THE FRP APPROACH:

The FRP Engineering approach focused on providing durable, low-maintenance solutions, including 152mm FRP Channel, 50mm FRP Equal Angle, and 38mm 40/20 Dark Grey Minimesh, tailored to meet both the environmental and operational needs of the project. By using innovative materials designed to withstand harsh conditions, FRP ensured the trail infrastructure could endure high foot traffic, erosion, and the challenging coastal environment. The team prioritised sustainability, minimising environmental impact during installation and ensuring the long-term preservation of the natural landscape. This approach not only addressed immediate challenges but also set a standard for future trail preservation projects.

## THE FRP RESULT

**The Bald Head Walk Trail has seen significant improvements since the FRP installation. Stabilisation measures have successfully curbed further erosion, while vegetation along the trail edges have begun to regenerate, restoring the natural environment.**

The solution implemented by FRP Engineering provided significant long-term benefits for the Bald Head Walk Trail. Erosion control measures effectively stopped further erosion, protecting the trail's structure and preventing additional environmental damage. Reinforced trail edges improved safety and accessibility, enhancing the visitor experience and preserving the trail's reputation as a top destination.

In addition, vegetation regeneration helped restore the surrounding ecosystem, supporting biodiversity and reducing the visual impact of previous erosion. By using durable, low-maintenance materials, the project minimised future upkeep costs, offering a sustainable solution that balances environmental preservation with operational efficiency.

**The enhanced infrastructure not only improved the safety and accessibility of the trail for hikers but also ensured the preservation of its stunning vistas and ecological integrity. This upgrade has provided a sustainable foundation for the trail, securing its future as a cherished destination for nature enthusiasts.**



## FRP PRODUCTS USED:

- 152mm FRP Channel
- 50mm FRP Equal Angle
- 38mm 40/20 Dark Grey Minimesh

## CONTACT US

For more information on our range, email us on [enquiries@frpengineering.net](mailto:enquiries@frpengineering.net) or call us at (08) 9455 4343 to discover our range of safety work access platforms today!